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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/147,318	02/24/99	LEIJON	M 98470006-6X

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EXAMINER

ENAD, E

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 02/22/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/147,318

Applicant(s)
Leijon et al.

Examiner
Enad, Elvin

Group Art Unit
2834



☒ Responsive to communication(s) filed on Nov 27, 1998

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 18-36 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 18-36 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☒ The proposed drawing correction, filed on Nov 27, 1998 is ☒ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
☐ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☒ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 2834

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. Applicant is reminded the duty to disclose information material to patentability as defined in 37 CFR 1.56. The duty to disclose information is placed on individuals associated with the filing and prosecution of a national stage application in the same manner as for a domestic national application.

Specification

3. The disclosure is objected to because of the following informalities: It is noted that the preliminary amendment, was received on November 27, 1998. However, a major portion of the amendments were not entered since their references to the specification were inconsistent. For instance, from the Background Of The Invention section to the Description Of The Preferred Embodiments section, the amendments were not entered.

Claim Rejections - 35 USC § 112

4. Claim 18 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 2834

In claim 18, the limitations pertaining to the spring member being “deactivated” and “activated” is unclear, lacking sufficient description.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 18-36 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Siemens (UK 468,827) in view of Breitenbach et al. (USP 4,785,38) and further in view of Grant (USP 5,325,008).

Siemens discloses the claimed invention except for utilizing a particular cable for its stator winding and having a spring member for reducing vibration problems. Siemens discloses a stator for a high potential AC machine comprising slot conductors having round cross-sections whereby round high voltage conductors are arranged located one behind the other.

Breitenbach et al. teach that it is known to utilize a high voltage cable for use as a phase winding for linear motors. The cable, which is similar to that of applicant's, is comprised of a metallic conductor, an inner conductive layer surrounding the conductor, an insulation disposed over said conductive layer, an outer conductive layer surrounding the insulation and a sheathing of electrically conductive material covering the outer conductive layer.

Art Unit: 2834

Grant teaches that it is known to provide spring member(s) disposed axially or radially along the stator winding wound in the stator slots for the purpose of restricting movement of the windings. Furthermore, Grant teaches a method of installing the spring members whereby the spring members are adhesively secured to flat surfaces, i.e. fillers strips, and at a predetermined elevated temperature, the adhesive is broken, enabling the spring to expand into a natural corrugated shape to apply the loading against the stator winding and wedges.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the high voltage cable as taught by Breitenbach et al. as winding conductors to the stator as disclosed by Siemens since such a modification according to Breitenbach et al. would provide a cable that is flexible, having high conductance as well high load-carrying capacity. Furthermore, it would have been obvious to utilize the teaching of Grant and to have provided a spring member between the conductor(s) and/or the conductors and the stator slots since such a modification according to column 1, lines 36-49 of Grant would prevent the conductors cable from movement, reducing internal conductor stress.

7. With regard to claim 32, it would have been obvious to have the inner semiconductor layer and the outer semiconductor layer to have a substantially the same coefficient of thermal expansion to the insulation in order to prevent cracking and to reduce strain.

Art Unit: 2834

8. With regard to claims 21-24, note column 1, lines 48 through column 2, lines 1-7 of Grant, whereby Grant teaches another method of assembling and inserting the ripple springs by means of first disposing filler strips in the space between the wedges and the stator conductors and then removing the filler strips so that the springs could be inserted.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elvin Enad whose telephone number is (703) 308-7619.

11. Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956. The fax phone number for this Group is (703) 305-3431 (32).



Elvin Enad
Primary Examiner
Art Unit 2834
02.01.2000